



Advanced Electrode Materials for Lithium-ion Rechargeable Battery

*Materials & Electrochemical Research (MER) Corporation
Tucson, AZ*

INNOVATION

Anode materials with high capacity for lithium-ion rechargeable batteries

ACCOMPLISHMENTS

- ◆ Optimized the production of the unique fullerene nanotube materials
- ◆ Developed processes to purify, increase the yield, and open the closed end of the nanotubes
- ◆ Characterized the electrochemical performance of the nanotubes
- ◆ Developed electrode fabrication technology
- ◆ Assembled and tested full cells

COMMERCIALIZATION

- ◆ Commercial sales - more than \$600K
- ◆ Obtained a commitment for \$2.5M to develop a commercialization plan and establish a prototype production



*High Performance Lithium-ion
Rechargeable Batteries*

GOVERNMENT/SCIENCE APPLICATIONS

- ◆ Aerospace batteries for use in satellites
- ◆ Low cost, and high energy density battery for portable consumer products such as cell phones, lap tops, etc.
- ◆ Use as portable power source for various military applications
- ◆ Electric vehicle application